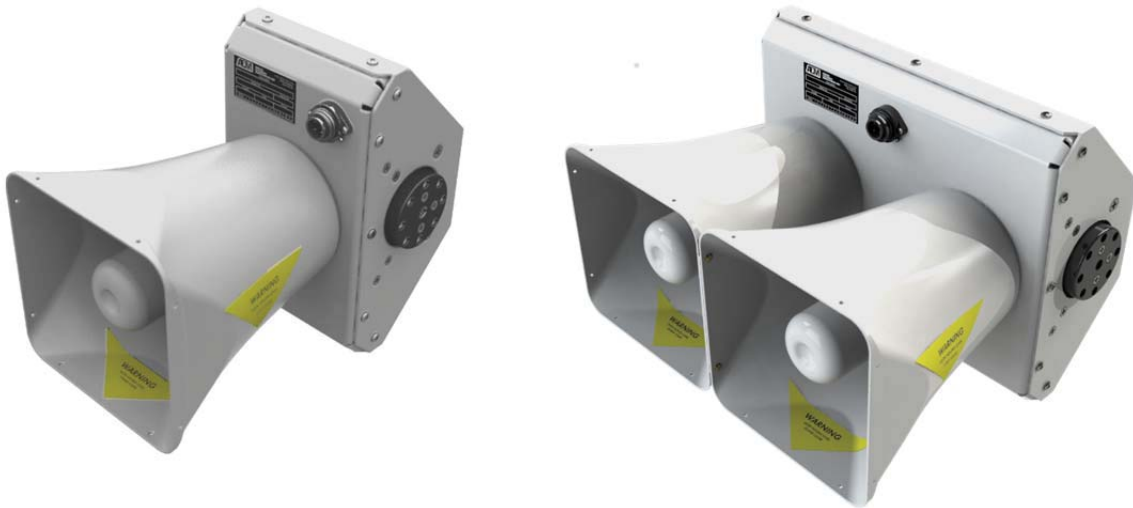




**ASM-LS**

**LSxxx Series  
High Power Loud Speaker**



## **INSTALLATION AND OPERATION MANUAL**

**REV 1.10 May 13, 2016**

**Anodyne Electronics Manufacturing Corp.  
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V1Y 4N7**

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## LSxxx Series High Power Loud Speaker Installation and Operation Manual

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## LSxxx Series High Power Loud Speaker Installation and Operation Manual

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# LSxxx Series High Power Loud Speaker Installation and Operation Manual

## Section 1.0 Description

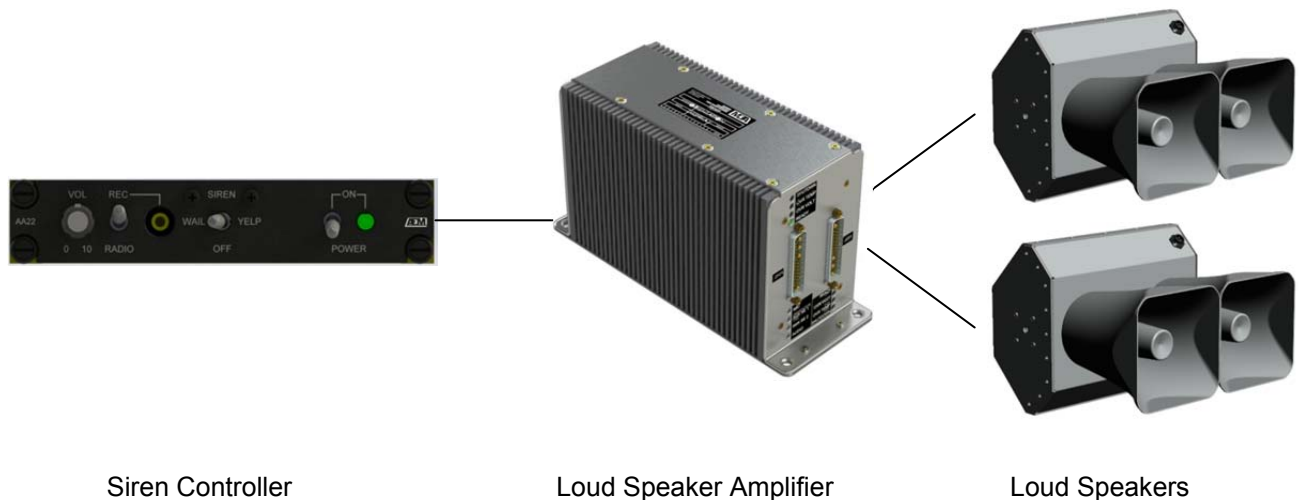
### 1.1 Introduction

Information in this section consists of product description, design features and specifications for the LSxxx Series High Power Loud Speakers.

Review all notes, warnings and cautions.

### 1.2 Product Description

The LSxxx Series Loud Speakers are high output power loud speakers for use in air-to-ground, air-to-sea, or ground-to-ground audible communication systems. The LSxxx Series speakers are intended for use with the LSA400 or LSA800 series amplifiers and a siren controller as a complete system.





## LSxxx Series High Power Loud Speaker Installation and Operation Manual

### 1.3 Design Features

This series of speakers is available in a single, double, or triple bell configuration, which allows the user to vary the range and/or dispersal pattern depending on the mounting configurations.

The speaker drivers have been updated to provide much better conversion of electrical power (Watts) to sound pressure (SPL).

The driver assembly and newly designed mechanical parts are field replaceable for ease of maintenance.

The LSxxx Series speakers are designed and qualified to meet many operational roles of current and future light, medium, and heavy helicopters as well as fixed wing aircraft.

### 1.4 Specifications

#### 1.4.1 Electrical Specifications

Loudspeaker	Total Bell Configuration	Impedance	Rated Peak Power	Output Level @ 1m & Rated Peak Power	Weight
LS300-200	1	5.5 $\Omega$	300 Watts Peak	130dB	15 lbs [6 kg]
LS600-200	2	2 Channels at 5.5 $\Omega$ each	600 Watts Peak	135dB	28 lbs [12.7 kg]

At the time of publication, performance information was available only for the speakers listed above. For details of other units, please contact the Product Support department at AEM.

#### 1.4.2 Physical Specifications

See Mechanical Installation drawings (LSxxx-xxx-922-0) for speaker physical specifications (where x is the model reference of the specific unit under consideration, i.e. LS300-200-922-0)

#### 1.4.3 Environmental Specifications

Temperature	-40 to +60°C (operating) -55 to +85°C (survival)
Altitude	+25,000 ft. (+7,620 m) max.
Humidity	95% Non-condensing
Shock	6g (any axis)
Vibration	DO-160G Category 'S' Curves B & M and Category 'U2' Curves F & F1
Magnetic Effect	DO-160G category 'B'



## LSxxx Series High Power Loud Speaker Installation and Operation Manual

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### 1.5 System Configuration

---

Loud Speaker	Total Bell Configuration	Amplifier	Input Power	Output Level @ 1m
LS300-200	1	LSA400	28 Vdc	130dB
LS600-200	2	LSA400	28 Vdc	135dB
LS600-200	2	LSA800	28 Vdc	135dB
1 X LS300-200 1 X LS600-200	3	LSA800	28 Vdc	137dB
2 X LS300-200	2	LSA800	28 Vdc	135dB
2 X LS600-200	4	LSA800	28 Vdc	141dB

At the time of publication, performance information was available only for the speakers listed above. For details of other units, please contact the Product Support department at AEM.

End of Section 1.0

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## LSxxx Series High Power Loud Speaker Installation and Operation Manual

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### Section 2.0 Installation

---

#### 2.1 Introduction

---

Information in this section consists of: unpacking and inspection procedures, installation procedures, post-installation checks, and installation drawings.

#### 2.2 Unpacking and Inspection

---

Unpack the equipment carefully. Inspect the unit visually for damage due to shipping and report all such claims immediately to the carrier involved. Note that each unit should have the following:

- LSxxx Series High Power Loud Speaker
- Product Information Card
- Certificate of Conformity or Release Certification

Verify that all items are present before proceeding and report any shortage immediately to your supplier.

##### 2.2.1 Warranty

---

All Anodyne Electronics Manufacturing Corp. (AEM) products are warranted for 2 years. See the website [www.aem-corp.com/warranty](http://www.aem-corp.com/warranty) for complete details.

#### 2.3 Installation Procedures

---

##### 2.3.1 Warnings

---

**WARNING:**

**When the speaker is connected to an appropriate amplifier, the system is capable of producing high sound pressure levels. Proper personal protective equipment is required to prevent hearing damage. Stand clear, this equipment operates at an intense sound level. Personnel must be kept away from the direct loud speaker beam.**





## LSxxx Series High Power Loud Speaker Installation and Operation Manual

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### 2.3.2 Cautions

---

**CAUTION:**

Do not operate the equipment in a hangar or in confined areas.  
Do not operate the equipment with snow, water or other foreign matter in the loud speaker horn.  
Do not clean the loud speaker with compressed air.  
Bundle and route the Speaker Output wires separately from low level Audio Input lines.  
Always check ADF and compass calibration after installing external speakers or power amplifiers.

### 2.3.3 Cabling and Wiring

---

All wire shall be selected in accordance with the original aircraft manufacturer's Maintenance Instructions or AC43.13-1B Change 1, Paragraphs 11-76 through 11-78. Unshielded wire types shall qualify to MIL-W-22759 as specified in AC43.13-1B Change 1, Paragraphs 11-85, 11-86, and listed in Table 11-11. For shielded wire applications, use Tefzel MIL-C-27500 shielded wire with solder sleeves (for shield terminations) to make the most compact and easily terminated interconnect. Follow the interconnect drawing in Section 2.7 as required.

Allow 3" from the end of the shielded wiring to the shield termination to allow the connector hood to be easily installed. Refer to the interconnect drawing in Section 2.7 for shield termination details. Note that the hood is a "clamshell" hood, and is installed after the wiring is complete. Aircraft harnessing shall permit the unit to be removed for easy access to all adjustments.

Maintain wire segregation and route wiring in accordance with the original aircraft manufacturers Maintenance Instructions.

### 2.3.4 Mechanical Installation

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The installing agency is responsible for the design, engineering and installation of the mounting bracket for the LSxxx Series High Power Loud Speakers. Careful consideration should be given to the operating environment and the mechanical forces acting upon the LSxxx Series unit(s).

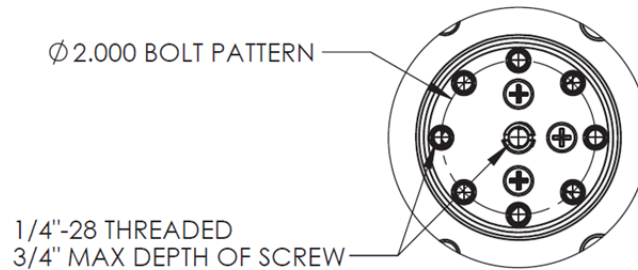
The guidelines used in the AC43.13-1B Advisory Circular should be used to provide general reference to the selection of hardware, torque values, etc. The specific references are contained in AC43.13-1B, Chapter 7, Table 7-1.

A minimum of five mounting 1/4"-28 bolts per side is recommended for the LS300-200 and LS600-200 speakers. The bolts should have a torque value of 50 – 70 inch lbs as per the AC43.13-1B. Refer to the following diagram for the mounting hole pattern.



## LSxxx Series High Power Loud Speaker Installation and Operation Manual

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MOUNTING HOLE PATTERN

The LSxxx-200 series of loud speakers, Rev 2.00 or later, can be mounted using the AFM-SB-XX series of Meeker Aviation mount brackets.

AEM Part Number	Required Meeker Aviation Mounting Bracket
LS300-200	AFM-SB-1D
LS600-200	AFM-SB-1B

For information and availability of the AFM-SB-XX series of mounting brackets contact Meeker Aviation:

**Meeker Aviation**  
#206 19142 122nd Ave  
Pitt Meadows, BC  
Canada V3Y 2P9  
PH: 604-644-1125  
FAX: 760-758-9612  
[www.meekeraviation.com](http://www.meekeraviation.com)

### 2.3.5 Post-Installation Checks

---

Ensure all connectors are tight and the speaker array mechanical installation is sound.

Ensure that the speakers are secure and adjusted with the line of sight focused towards the intended target. See section 2.6 for speaker location and orientation information.

When the PA system installation is complete, carry out a full performance test to ensure that all components of the system (including the loud speaker array) are functioning correctly.

### 2.4 Accessories Required But Not Supplied

---

LS300-IK      LS300 and LS600 90° Sealed Screw Terminal Installation Kit

### 2.5 Continued Airworthiness

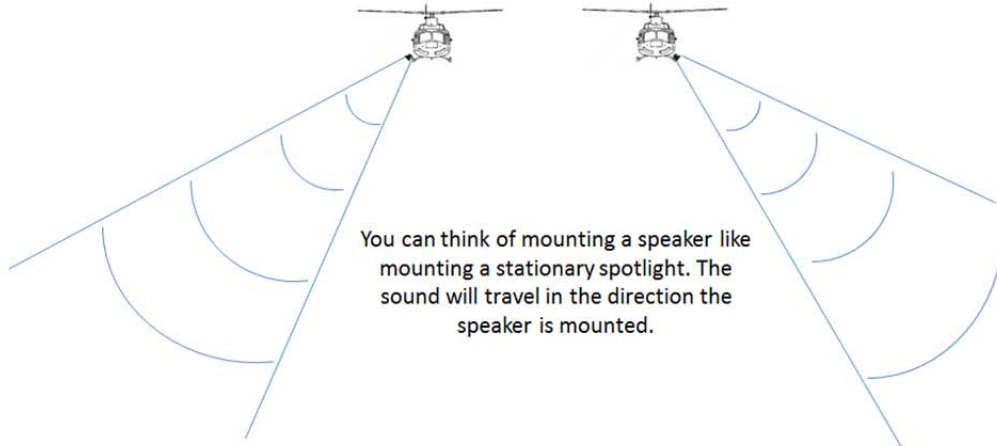
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Maintenance of the LSxxx Series is 'on condition' only. Periodic maintenance of this product is not required.



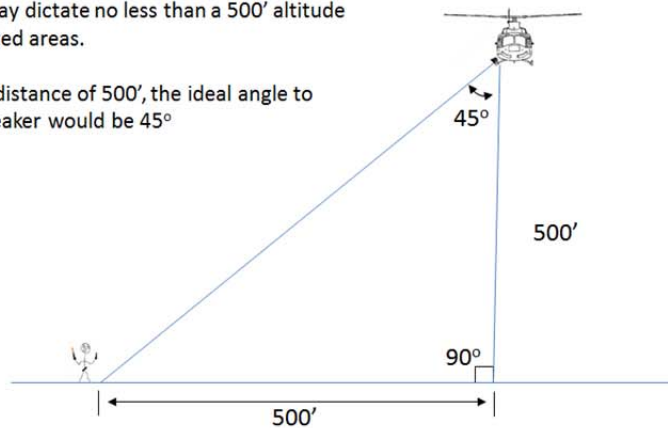
## LSxxx Series High Power Loud Speaker Installation and Operation Manual

### 2.6 Speaker Location and Orientation

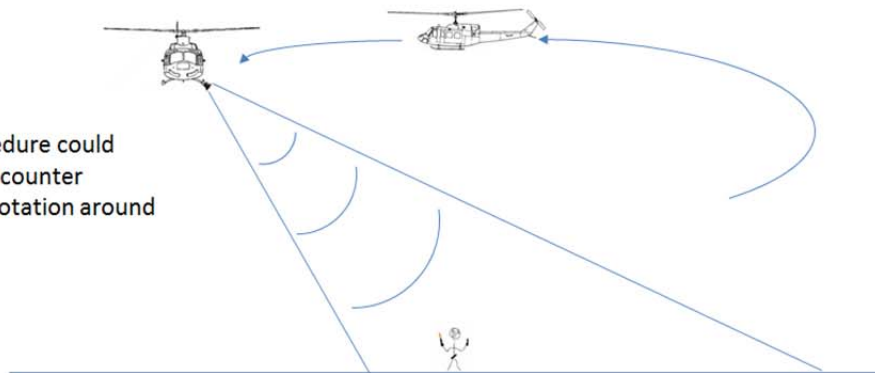


Regulations may dictate no less than a 500' altitude above populated areas.

With a target distance of 500', the ideal angle to mount the speaker would be 45°



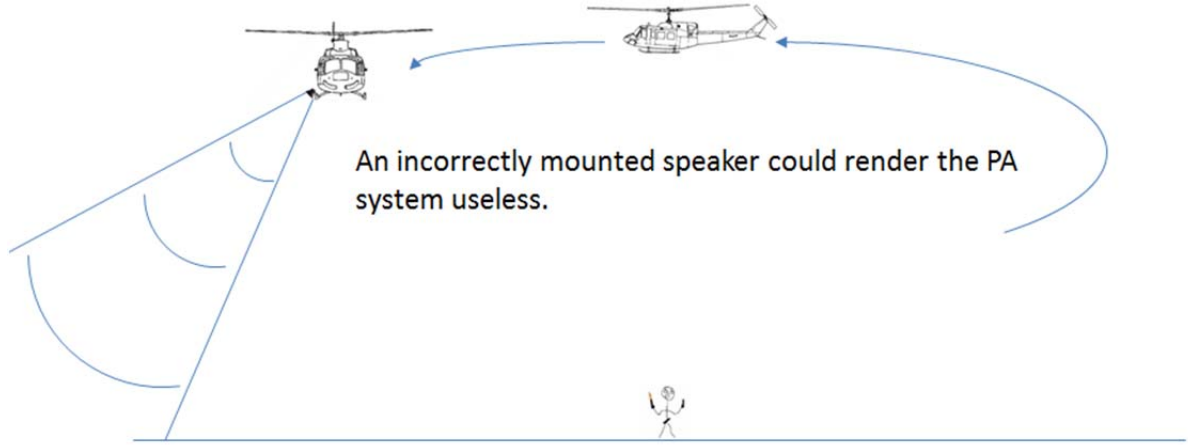
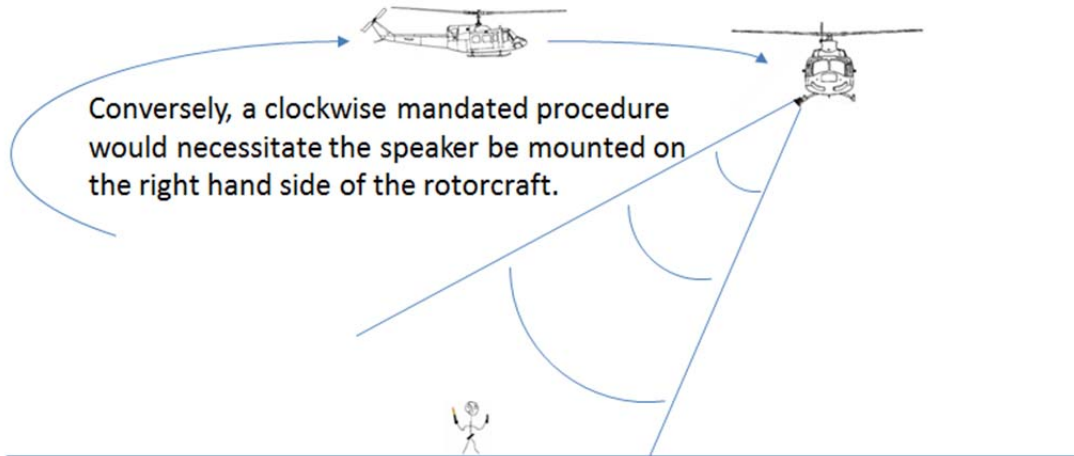
Local procedure could mandate a counter clockwise rotation around target.



A speaker mounted on the left side of the helicopter would facilitate PA communications from helicopter to target.

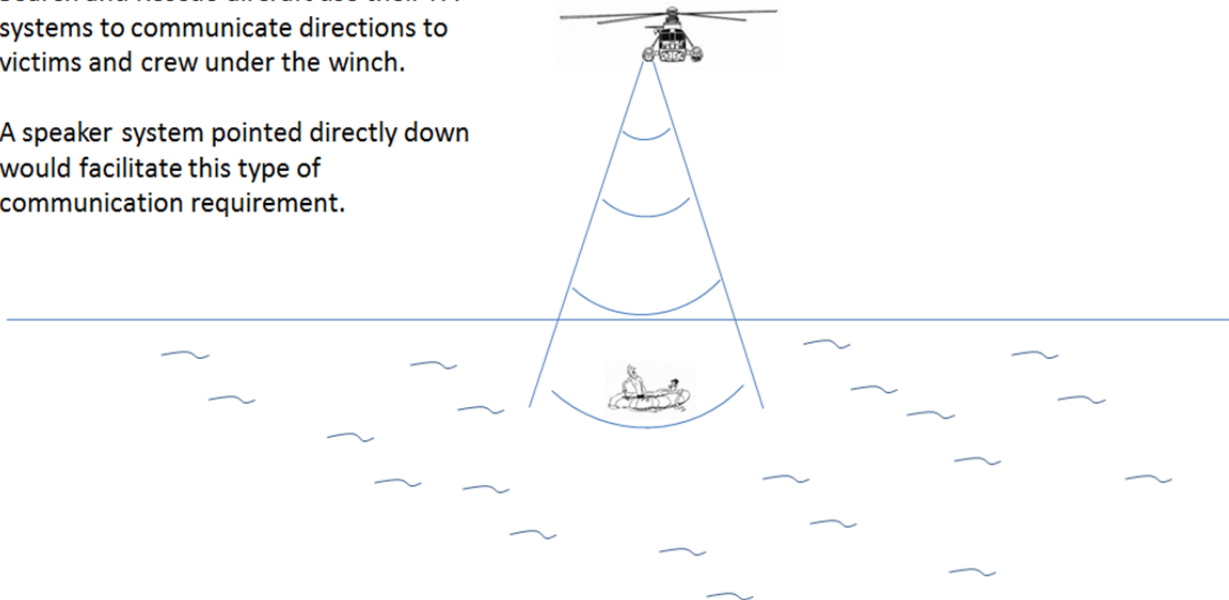


## LSxxx Series High Power Loud Speaker Installation and Operation Manual



Search and Rescue aircraft use their PA systems to communicate directions to victims and crew under the winch.

A speaker system pointed directly down would facilitate this type of communication requirement.





## LSxxx Series High Power Loud Speaker Installation and Operation Manual

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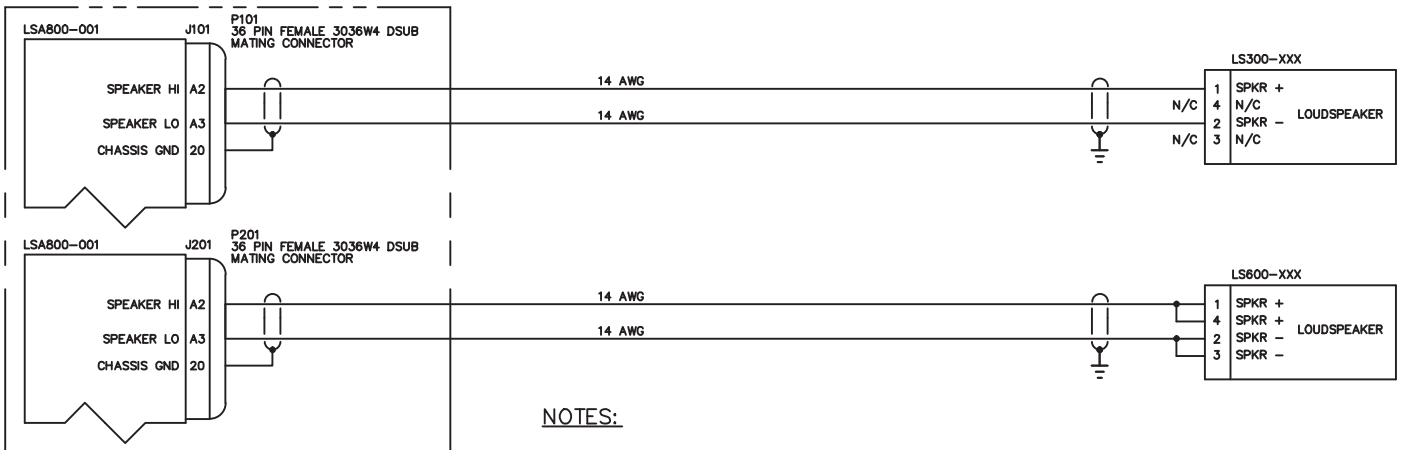
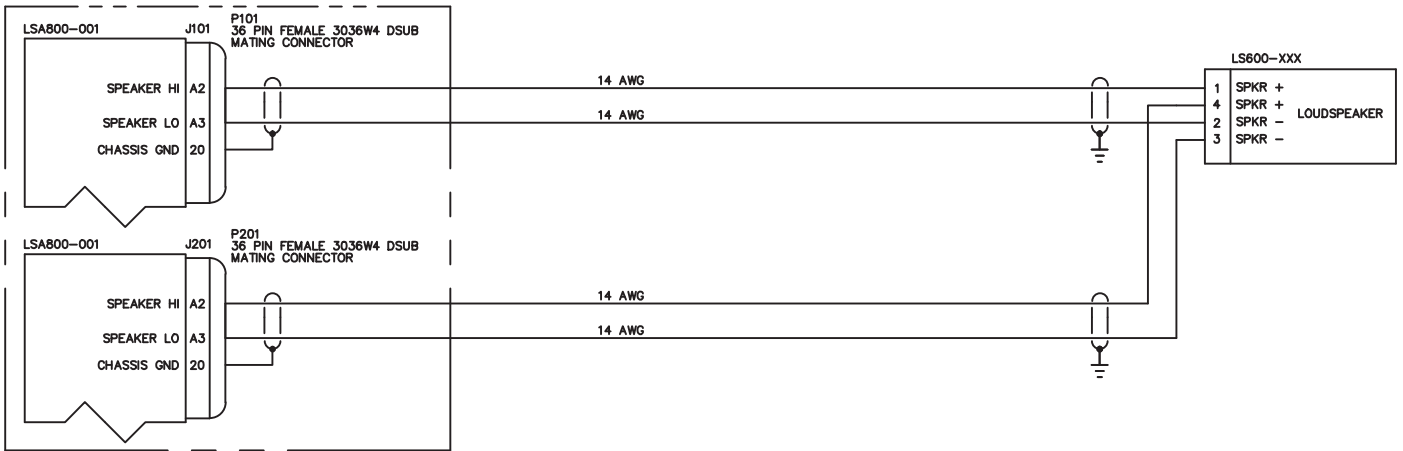
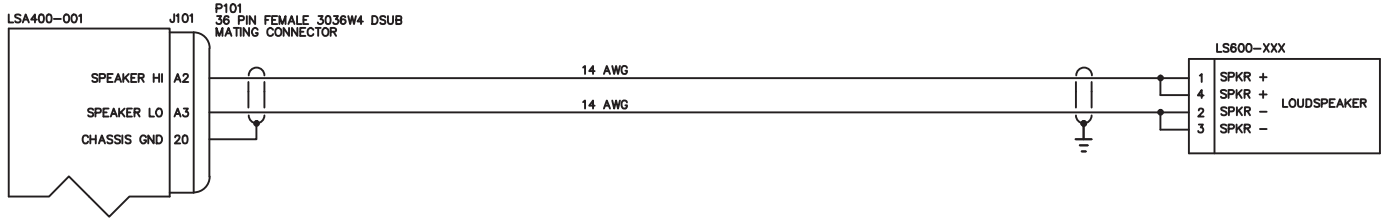
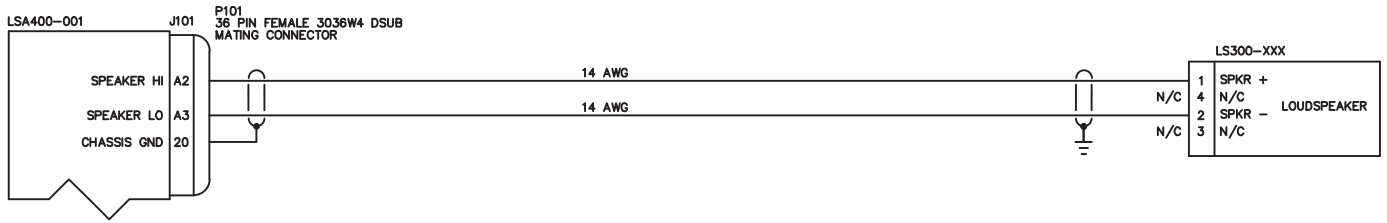
### 2.7 Installation Drawings

---

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LSxxx-403-0	1.00	Loud Speaker Configurations	Interconnect	All
LS300-405-0	2.00	Loud Speaker, LS300	Connector Map	1006 and up
LS300-405-0	1.00	Loud Speaker, LS300	Connector Map	Up to 1005
LS600-405-0	2.00	Loud Speaker, LS600	Connector Map	1006 and up
LS600-405-0	1.00	Loud Speaker, LS600	Connector Map	Up to 1005
LS300-200-922-0	2.00	Loud Speaker, LS300	Mechanical Installation	1006 and up
LS300-200-922-0	1.10	Loud Speaker, LS300	Mechanical Installation	Up to 1005
LS600-200-922-0	2.00	Loud Speaker, LS600	Mechanical Installation	1006 and up
LS600-200-922-0	1.00	Loud Speaker, LS600	Mechanical Installation	Up to 1005

Section 2.0 ends following the above documents

---



**NOTES:**

- SEE APPLICABLE ASM-LSA400 OR ASM-LSA800 INSTALL AND OPS MANUAL FOR SYSTEM LEVEL INTERCONNECTIONS.

NAME	DATE	UNLESS OTHERWISE SPECIFIED:
DRAWN LAC	Apr 24/15	DIMENSIONS ARE IN INCHES [MM]
CHECKED [Signature]	Apr 24/15	TOLERANCES:
APPROVED [Signature]	Apr 28/15	FRACTIONAL _____ ±0.0625"
		ANGULAR _____ ±0.5°
		TWO DECIMAL PLACE _____ ±0.010"
		THREE DECIMAL PLACE _____ ±0.005"



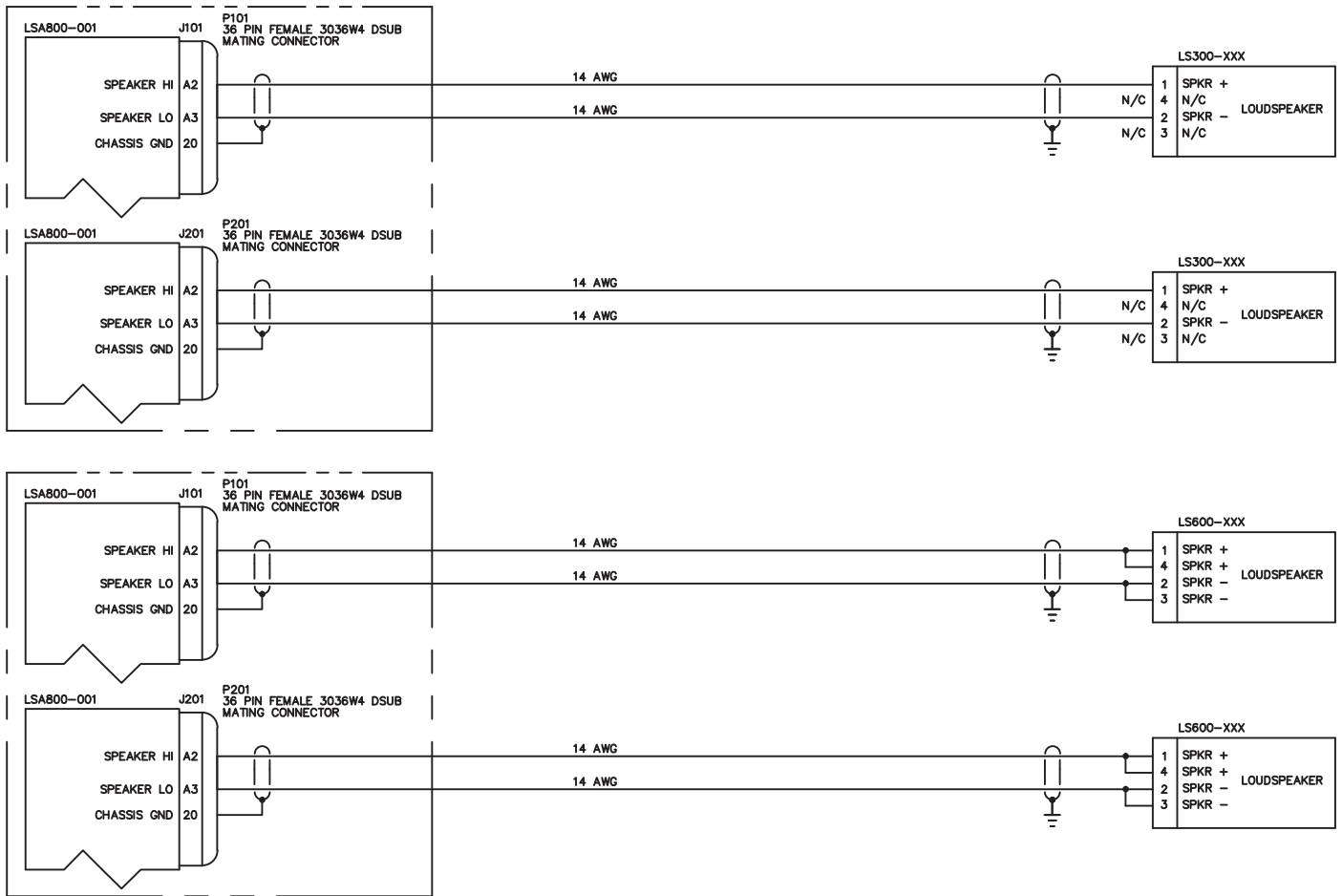
**ANODYNE ELECTRONICS MANUFACTURING CORP.**

KELOWNA BC CANADA  
(250)-763-1088  
WWW.AEM-CORP.COM

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
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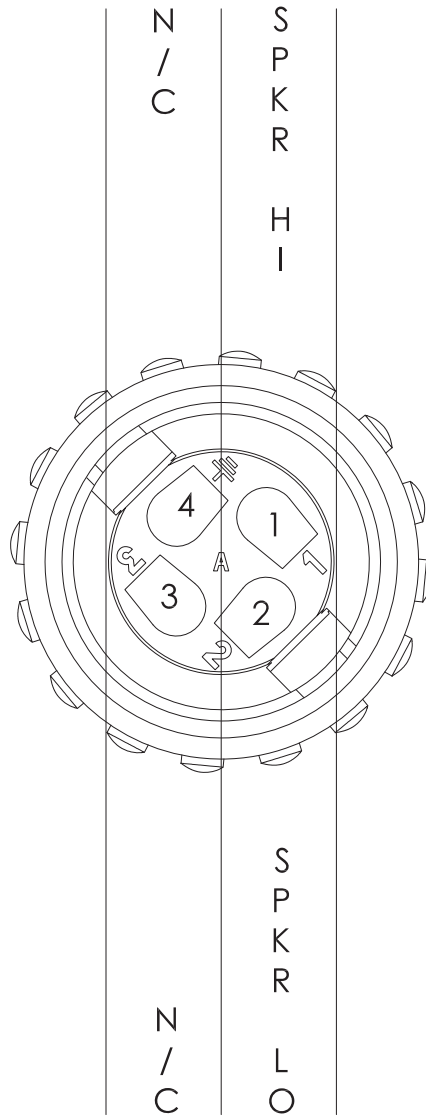


**NOTES:**

- SEE APPLICABLE ASM-LSA400 OR ASM-LSA800  
INSTALL AND OPS MANUAL FOR SYSTEM LEVEL INTERCONNECTIONS.




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CHECKED	 Apr 24/15	TOLERANCES:							
APPROVED	 Apr 28/15	FRACTIONAL _____ ±0.0625"	TITLE:		<b>LOUD SPEAKER CONFIGURATIONS INTERCONNECT</b>				
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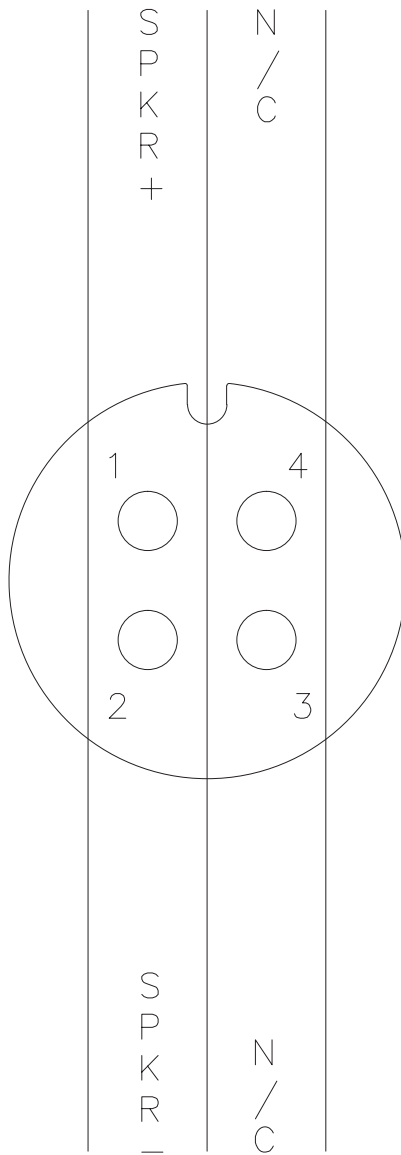


4 PIN CIRCULAR  
SOCKET SCREW

VIEW IS FROM REAR OF AIRFRAME CONNECTOR




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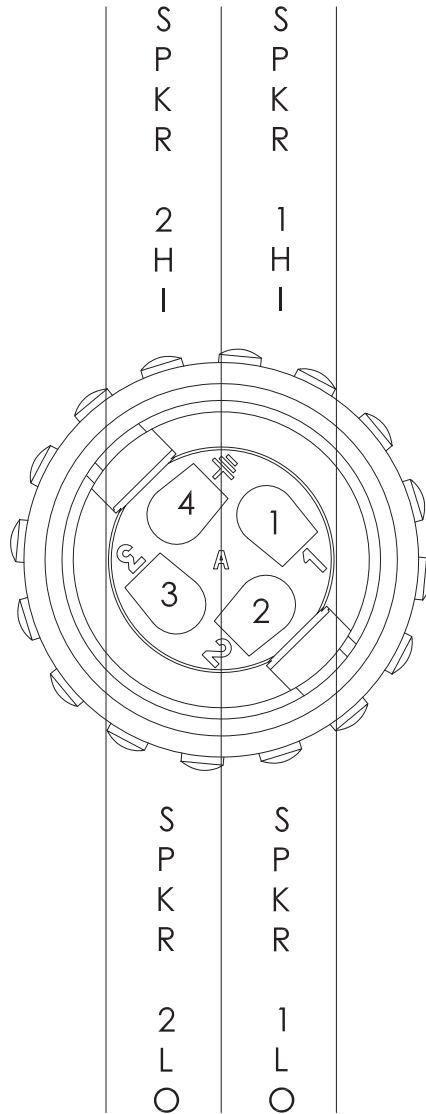


4 PIN CIRCULAR  
SOCKET SOLDER

VIEW IS FROM REAR OF AIRFRAME CONNECTOR




	NAME	DATE	UNLESS OTHERWISE SPECIFIED:		 <b>ANODYNE ELECTRONICS MANUFACTURING CORP.</b>	KELOWNA BC CANADA (250)-763-1088 WWW.AEM-CORP.COM		
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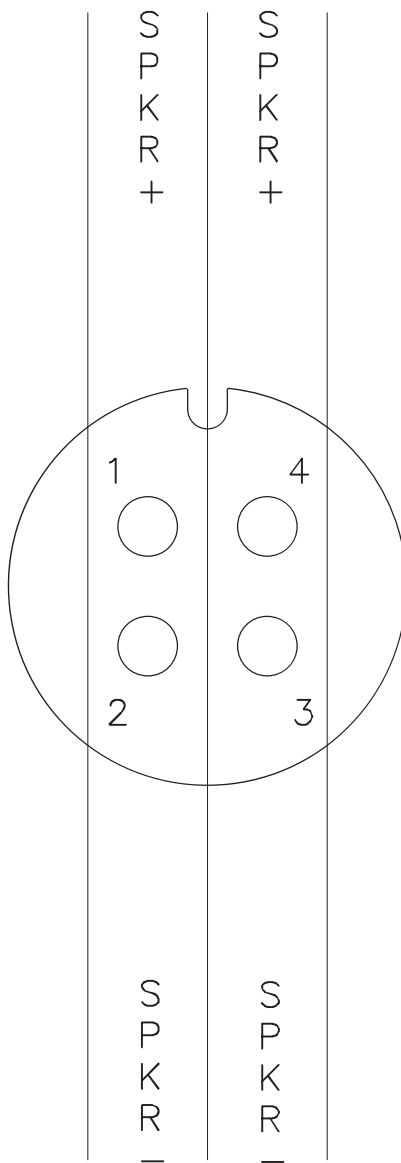
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REV	DESCRIPTION	DATE	BY
2.00	ECO# 1037, NEW CONNECTOR	16-Feb-15	DMF



4 PIN CIRCULAR  
SOCKET SCREW




VIEW IS FROM REAR OF AIRFRAME CONNECTOR

	NAME	DATE	UNLESS OTHERWISE SPECIFIED:	 <b>ANODYNE ELECTRONICS MANUFACTURING CORP.</b>		KELOWNA BC CANADA (250)-763-1088 WWW.AEM-CORP.COM		
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4 PIN CIRCULAR  
SOCKET SOLDER

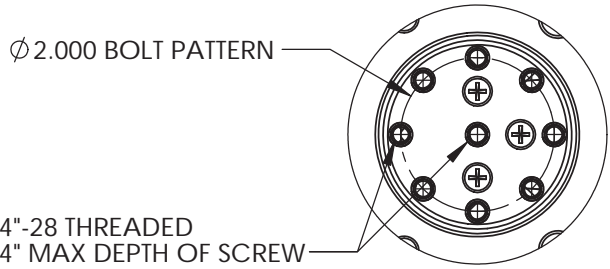
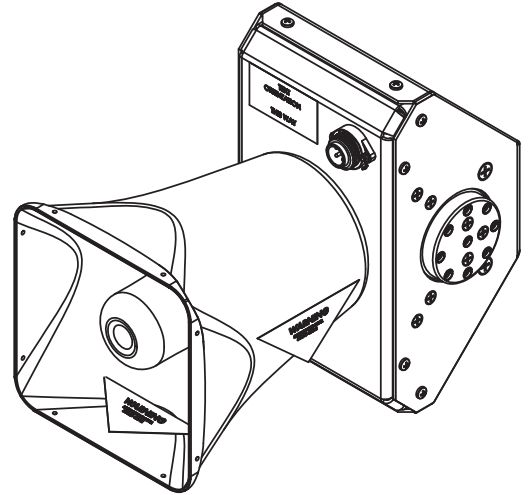
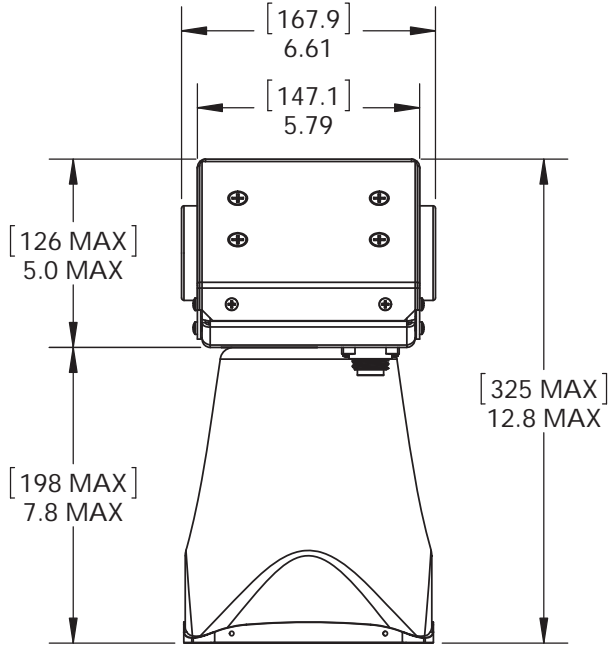
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			THREE DECIMAL PLACE _____ ±0.005"					
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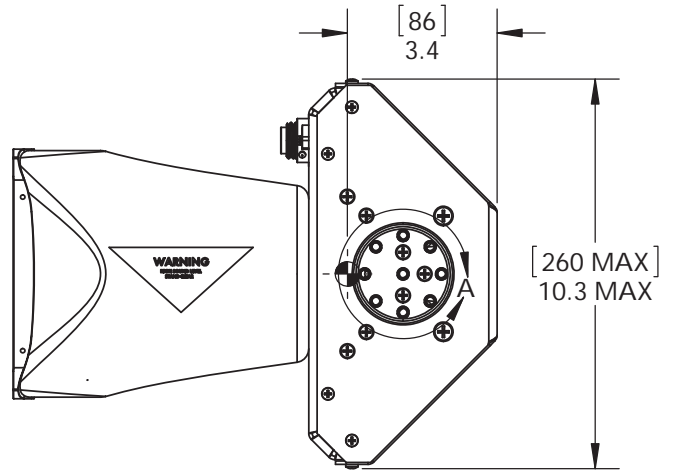
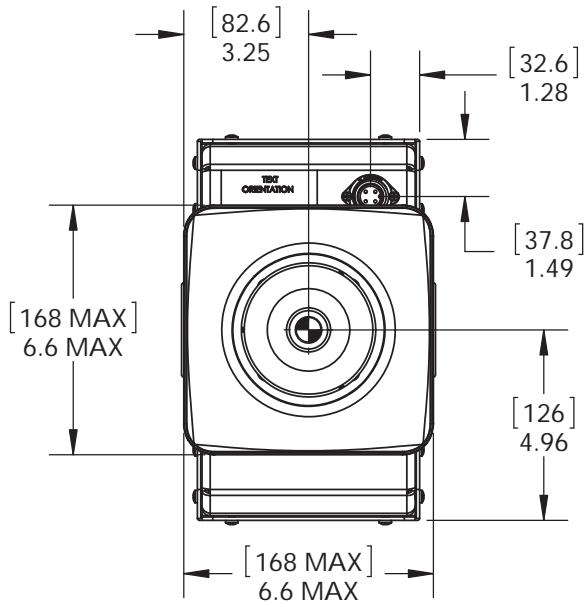
REVISIONS			
REV.	DESCRIPTION	DATE	NAME
2.00	ECO# 1037, NEW DESIGN AFTER VIBRATION TESTING	02-Mar-15	DMF



NOTES:

1. MASS 15 lbs [6.8 kg] MAX.
2.  DENOTES CENTER OF GRAVITY (est.)



DETAIL A  
MOUNTING HOLE PATTERN  
SCALE 2 : 5



NAME	DATE	UNLESS OTHERWISE SPECIFIED:
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		FRACTIONAL ±0.0625"
		ONE DECIMAL PLACE ±0.100"
		TWO DECIMAL PLACE ±0.030"
		THREE DECIMAL PLACE ±0.010"
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MANUFACTURING CORP.**

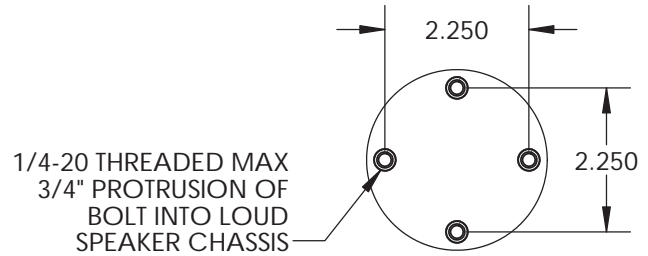
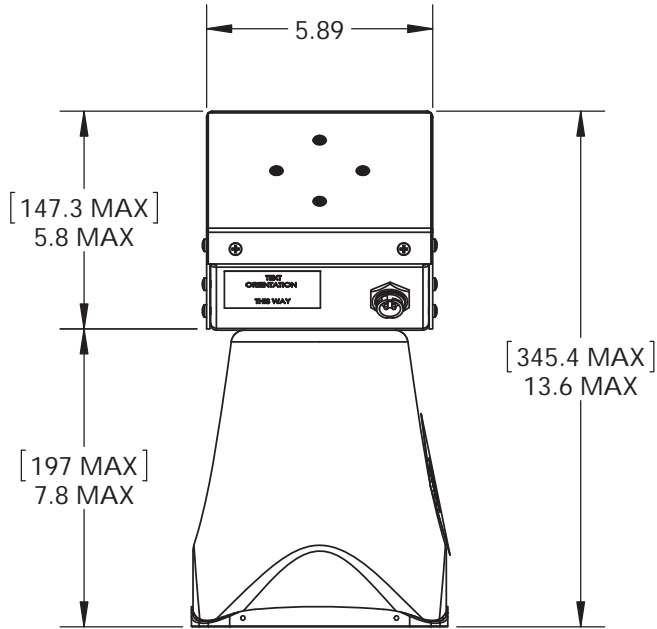
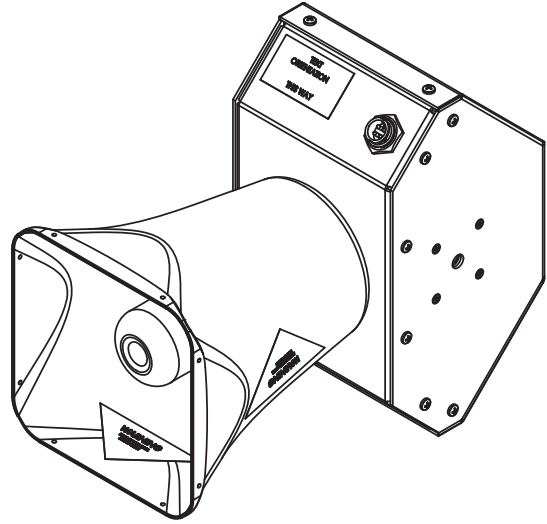
15-1925 KIRSCHNER RD.  
KELOWNA BC V1Y 4N7  
(250)-763-1088  
WWW.AEM-CORP.COM

TITLE: <b>LOUD SPEAKER MECHANICAL INSTALLATION</b>			
PAPER SIZE: <b>A</b>	CAGE CODE: <b>L9015</b>	PART No. : <b>LS300-200</b>	REVISION: <b>2.00</b>
SCALE: 1:5	DO NOT SCALE DRAWING	DRAWING No. : 922-0	SHEET: 1 OF 1

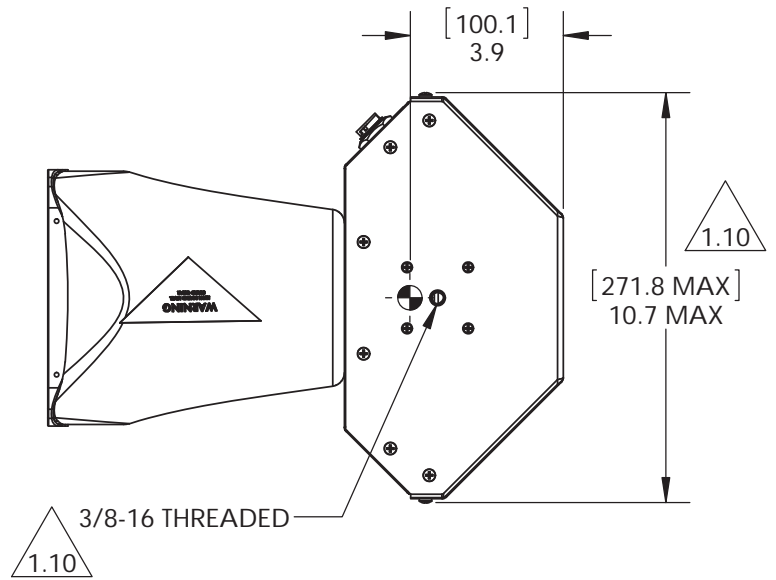
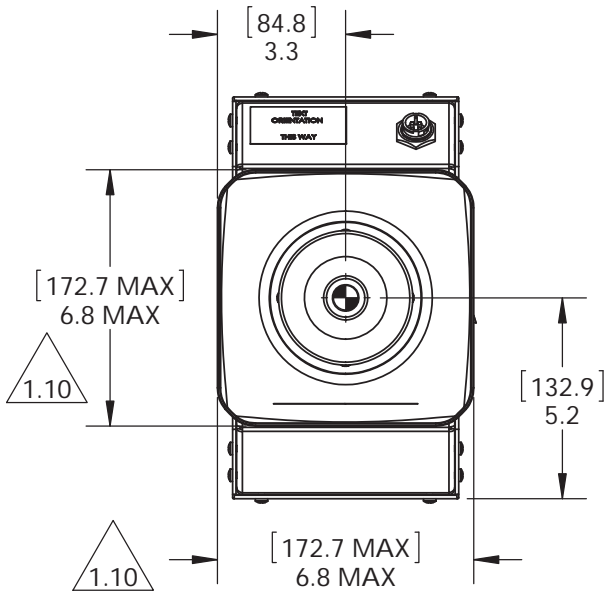
REVISIONS			
REV.	DESCRIPTION	DATE	NAME
1.10	RAS# 379, ADDED 3/8-16 THREADED NOTE, UPDATED DIMENSION SIZES	17-Nov-14	DMF


NOTES:

1. MASS 15 lbs [6 kg] MAX.
2.  DENOTES CENTER OF GRAVITY (est.)

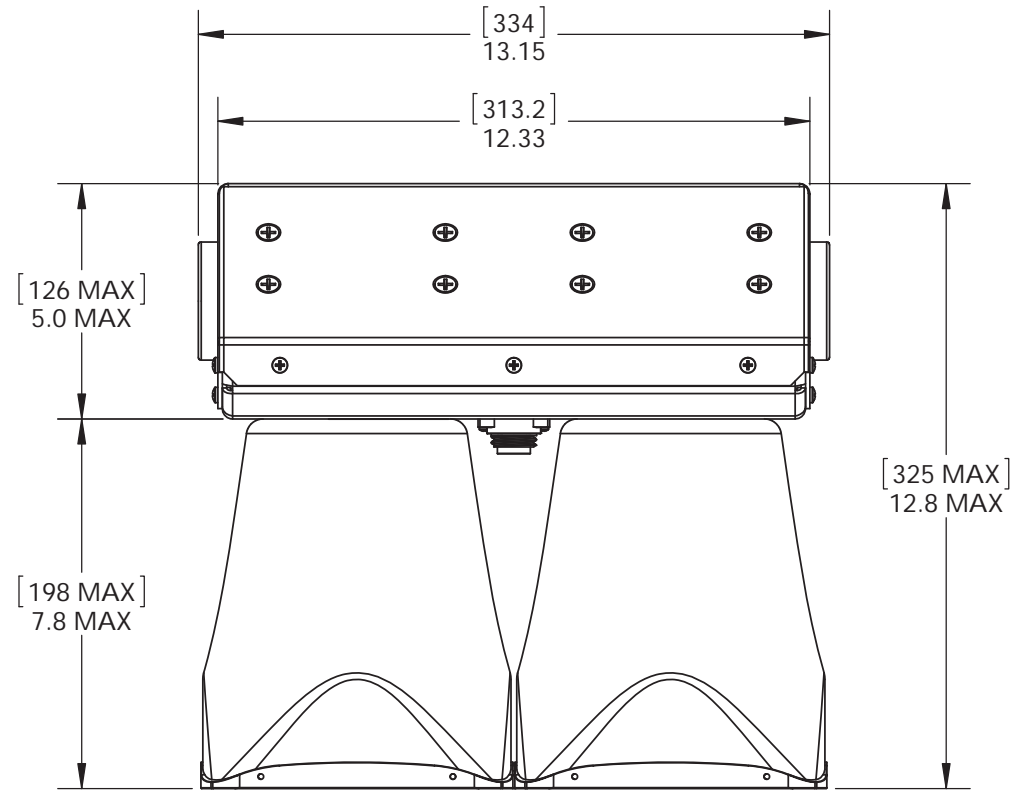


SCALE 1 : 3  
DIAMOND MOUNTING PATTERN

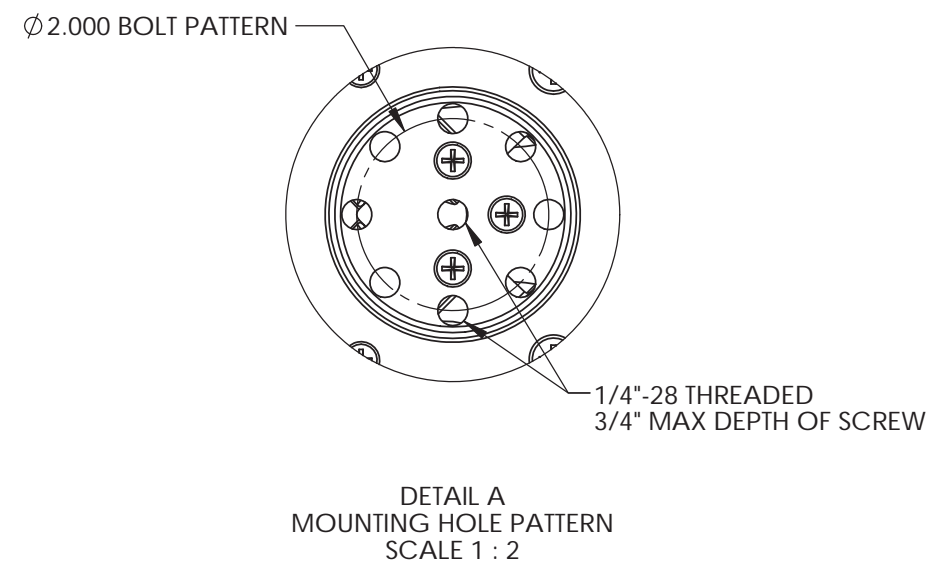
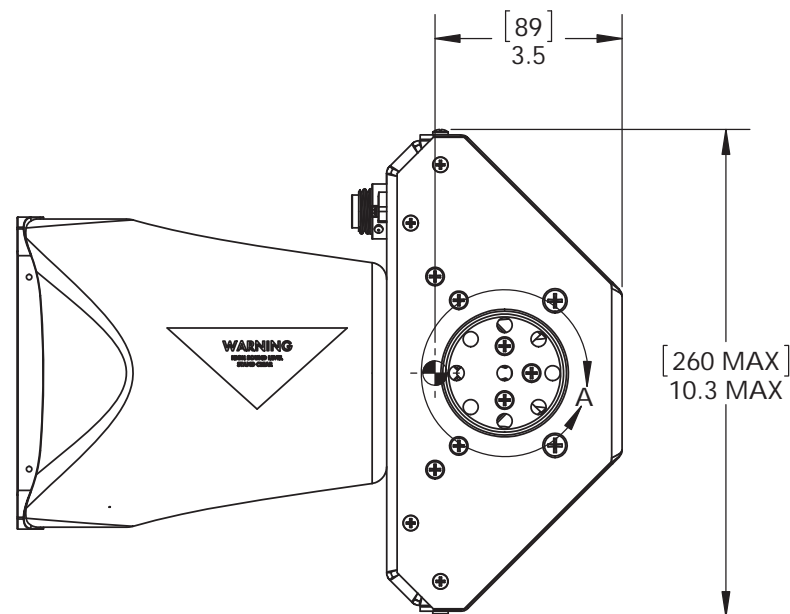
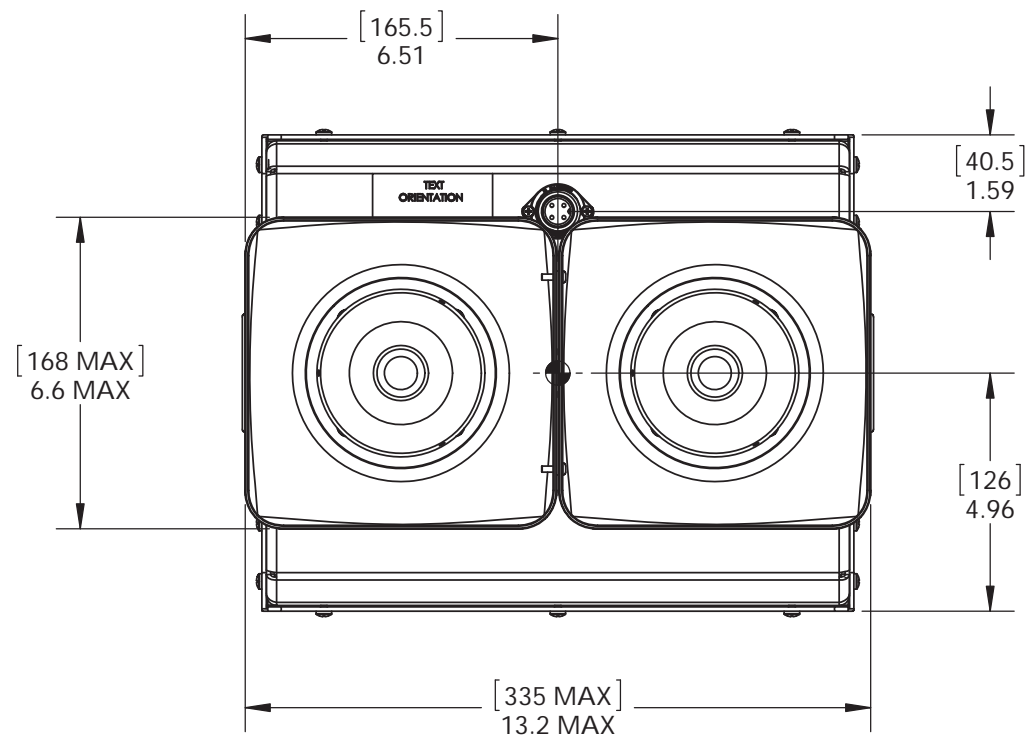
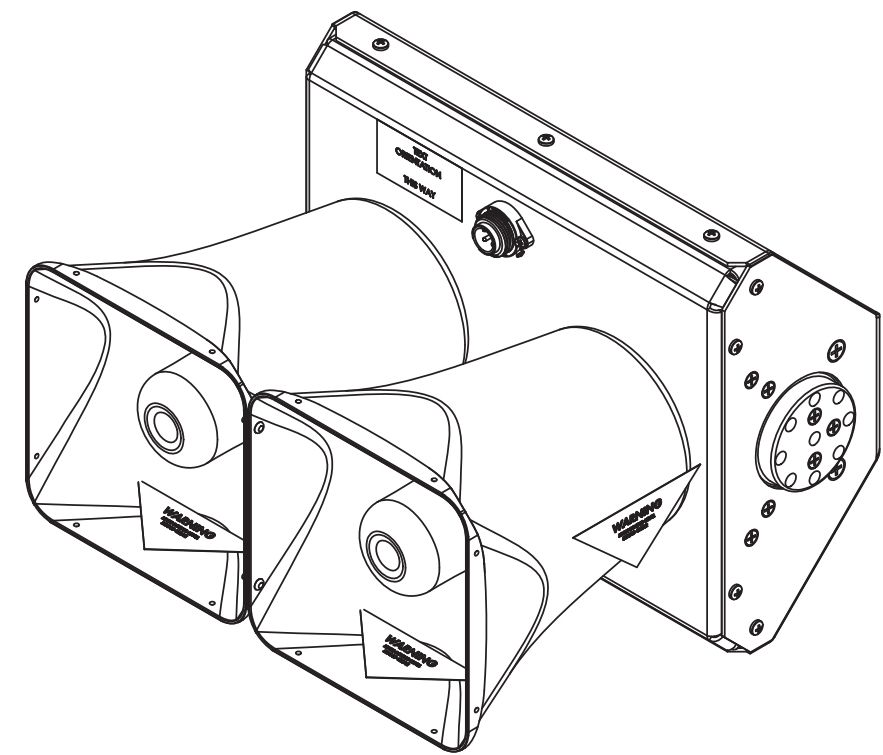


NAME	DATE	UNLESS OTHERWISE SPECIFIED:	 <b>ANODYNE ELECTRONICS MANUFACTURING CORP.</b>		15-1925 KIRSCHNER RD. KELOWNA BC V1Y 4N7 (250)-763-1088 WWW.AEM-CORP.COM	
DRAWN	14-Nov-14	DIMENSIONS ARE IN INCHES [MM]				
CHECKED	14-Nov-14	TOLERANCES:	TITLE:		LOUD SPEAKER MECHANICAL INSTALLATION	
APPROVED	Nov 17/14	ANGULAR ±0.5°	PAPER SIZE:		A	
		FRACTIONAL ±0.0625"	CAGE CODE		L9015	
		ONE DECIMAL PLACE ±0.100"	PART No. :		LS300-200	
		TWO DECIMAL PLACE ±0.030"	REVISION		1.10	
		THREE DECIMAL PLACE ±0.010"	SCALE: 1:5		DO NOT SCALE DRAWING	
CONFIDENTIAL AND PROPRIETARY THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ANODYNE ELECTRONICS MANUFACTURING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ANODYNE ELECTRONICS MANUFACTURING IS PROHIBITED.		MATERIAL:	DRAWING No. : 922-0		SHEET: 1 OF 1	
		N/A				
		FINISH:				
		N/A				
		-				

REVISIONS			
REV.	DESCRIPTION	DATE	NAME
2.00	ECO# 1037, NEW DESIGN AFTER VIBRATION TESTING	11-Mar-15	DMF



- NOTES:
1. MASS 28 lbs [12.7 kg] MAX.
  2. -●- DENOTES CENTER OF GRAVITY (est.)

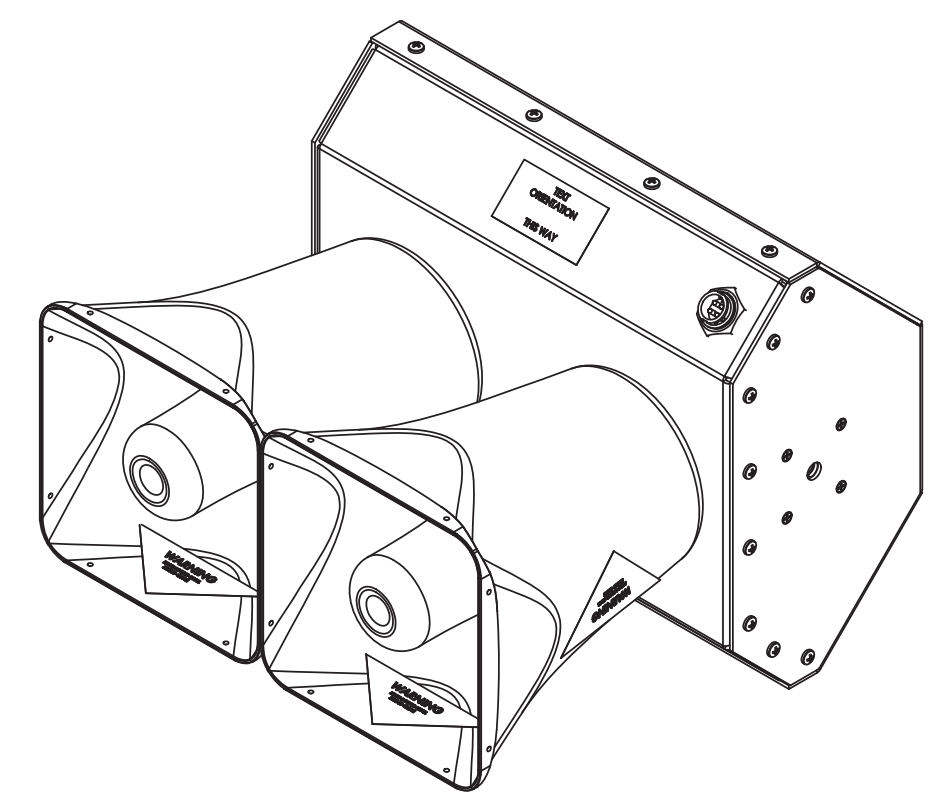
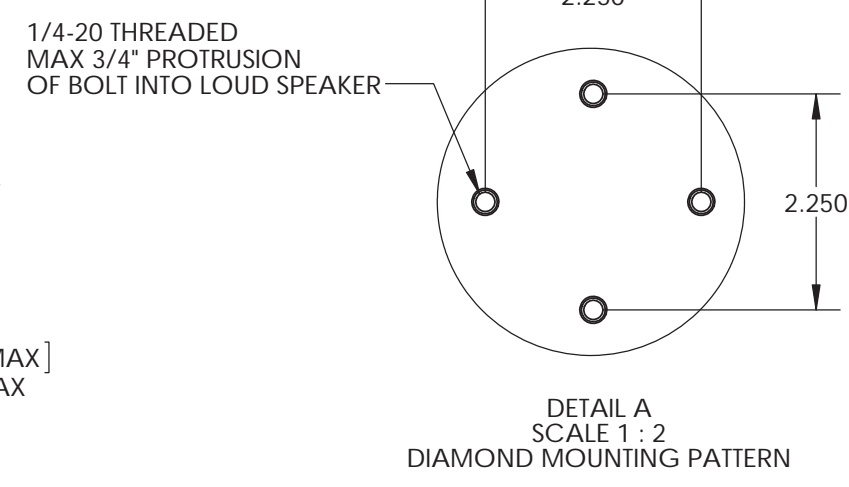
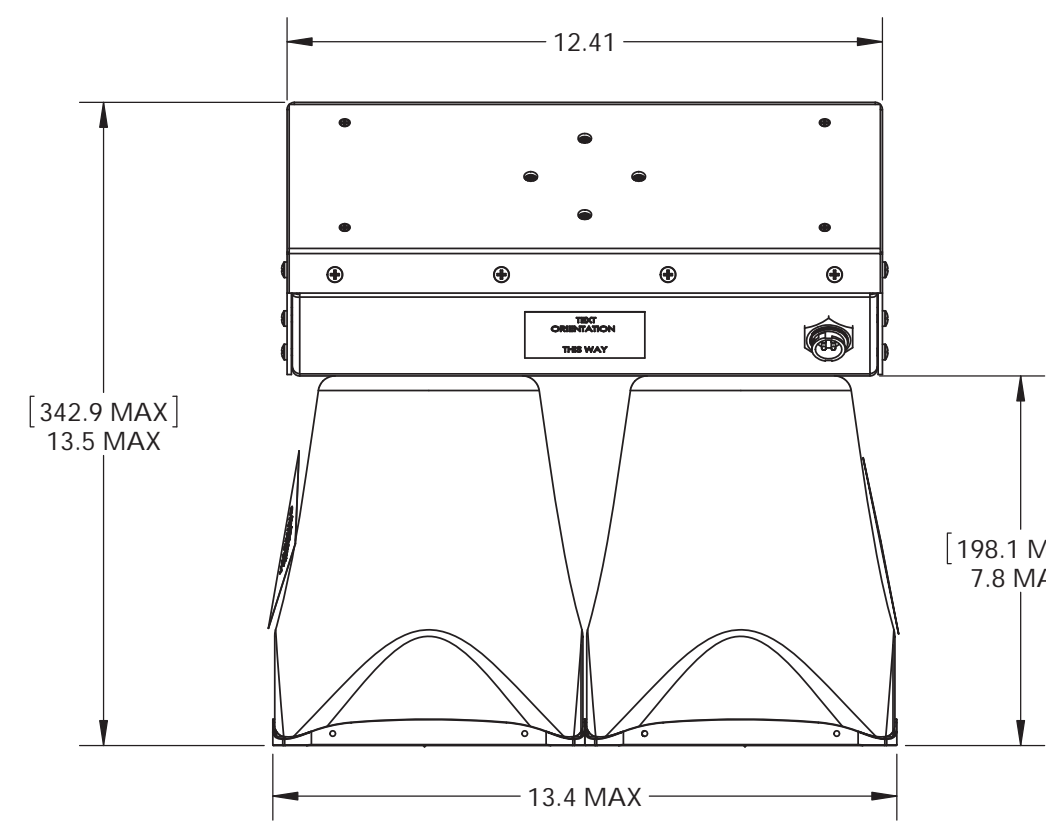


DRAWN	DMF	14-Oct-14	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES [MM] TOLERANCES: ANGULAR _____ ±0.5° FRACTIONAL _____ ±0.0625" ONE DECIMAL PLACE _____ ±0.100" TWO DECIMAL PLACE _____ ±0.030" THREE DECIMAL PLACE _____ ±0.010"
CHECKED	<i>[Signature]</i>	11-Mar-15	
APPROVED	<i>[Signature]</i>	Apr 8/15	
CONFIDENTIAL AND PROPRIETARY THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ANODYNE ELECTRONICS MANUFACTURING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ANODYNE ELECTRONICS MANUFACTURING IS PROHIBITED.			
MATERIAL:			N/A
FINISH:			N/A

<b>AEM</b> ANODYNE ELECTRONICS MANUFACTURING CORP.		15-1925 KIRSCHNER RD. KELOWNA BC V1Y 4N7 (250)-763-1088 WWW.AEM-CORP.COM	
TITLE: <b>LOUD SPEAKER MECHANICAL INSTALLATION</b>			
PAPER SIZE: <b>B</b>	CAGE CODE: <b>L9015</b>	PART No.: <b>LS600-200</b>	REVISION: <b>2.00</b>
SCALE: 1:4		DO NOT SCALE DRAWING	DRAWING No.: 922-0
			SHEET: 1 OF 1

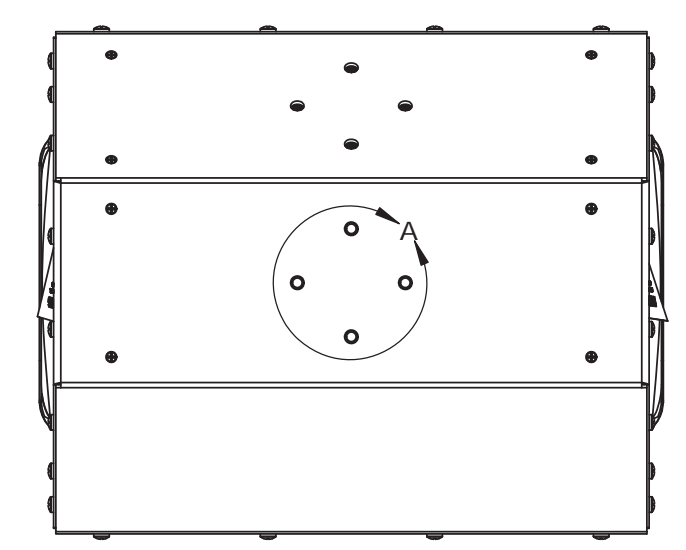
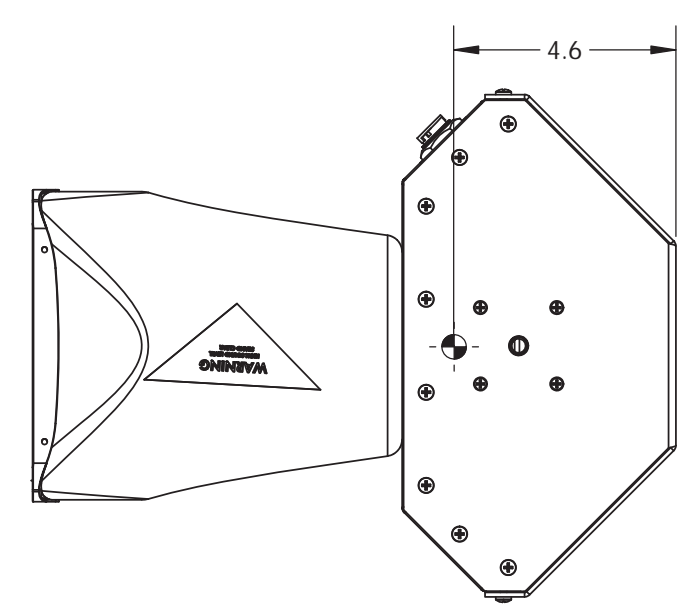
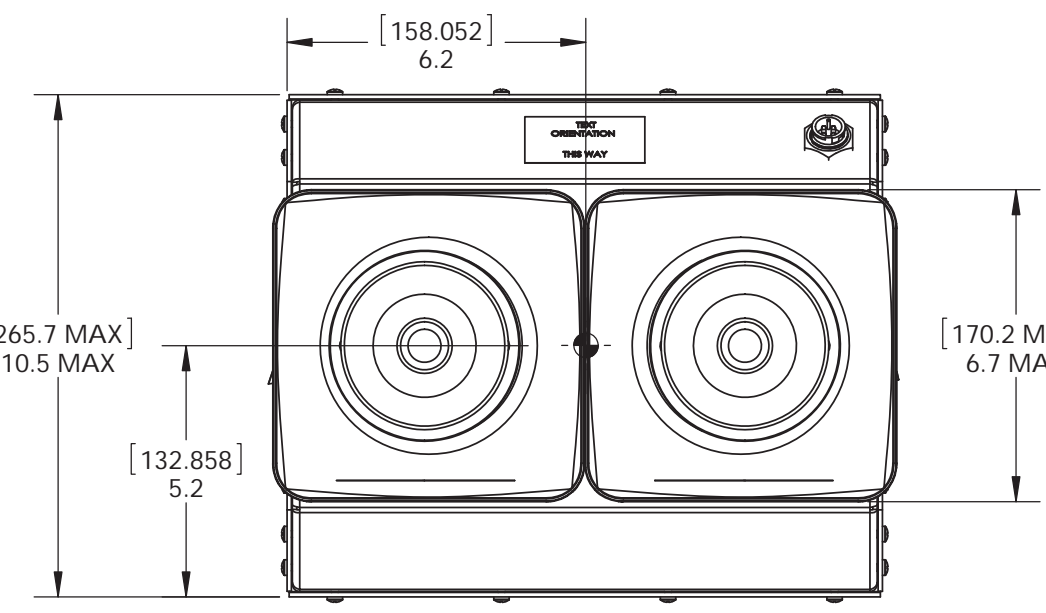
8 7 6 5 8 7 6 5

D



D

C



C

B

B

A

A

- Notes:
1. MASS 29 lbs [13.2 kg] MAX.
  2. DENOTES CENTER OF GRAVITY (est.)

	NAME	DATE	UNLESS OTHERWISE SPECIFIED:
DRAWN	DMF	14-Nov-14	DIMENSIONS ARE IN INCHES [MM]
CHECKED		Dec 10/14	TOLERANCES:
APPROVED		16-Dec-14	ANGULAR _____ ±0.5°
			FRACTIONAL _____ ±0.0625"
			ONE DECIMAL PLACE _____ ±0.100"
			TWO DECIMAL PLACE _____ ±0.030"
			THREE DECIMAL PLACE _____ ±0.010"
CONFIDENTIAL AND PROPRIETARY THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ANODYNE ELECTRONICS MANUFACTURING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ANODYNE ELECTRONICS MANUFACTURING IS PROHIBITED.			MATERIAL: N/A
			FINISH: N/A
			-

		15-1925 KIRSCHNER RD. KELOWNA BC V1Y 4N7 (250)-763-1088 WWW.AEM-CORP.COM	
TITLE: LOUD SPEAKER MECHANICAL INSTALLATION			
PAPER SIZE: B	CAGE CODE: L9015	PART No.: LS600-200	REVISION: 1.00
SCALE: 1:4		DO NOT SCALE DRAWING	DRAWING No.: 922-0
			SHEET: 1 OF 1

8 7 6 5 8 7 6 5



## LSxxx Series High Power Loud Speaker Installation and Operation Manual

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### Section 3.0 Operation

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#### 3.1 Operation Specifics

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The LSxxx Series High Power Loud Speaker has no normal user operational aspects.

End of Section 3.0

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